

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1-4 (canceled).

Claim 5 (currently amended): A hard disk drive enclosure, comprising:

a first group of current sharing power supplies implementing a first power domain;
a first plurality of elements in the first power domain powered by the first group of
current sharing power supplies, wherein the first plurality of elements includes a first
plurality of hard disk drives;

a second group of current sharing power supplies implementing a second power
domain;

a second plurality of elements in the second power domain powered by the second
group of current sharing power supplies, wherein the second plurality of elements
includes a second plurality of hard disk drives;

~~The hard disk drive enclosure of claim 1, further comprising:~~

~~a third plurality of elements in a shared power domain; and~~

~~a power circuit coupled to the first group of current sharing power supplies and the~~
~~second group of current sharing power supplies to provide a shared power to the third~~
~~plurality of elements.~~

Claim 6 (canceled).

Claim 7 (previously presented): The hard disk drive enclosure of claim 5, wherein the power circuit comprises:

a first fuse having an input terminal coupled to the first group of current sharing power supplies;

a second fuse having an input terminal coupled to the second group of current sharing power supplies;

a first diode coupled between an output terminal of the first fuse and an output terminal of the power circuit; and

a second diode coupled between an output terminal of the second fuse and the output terminal of the power circuit.

Claim 8 (canceled).

Claim 9 (previously presented): The hard disk drive enclosure of claim 5, wherein the first group of power supplies further comprises at least one backup battery.

Claim 10 (previously presented): A hard disk drive enclosure, comprising:

a first plurality of elements including a first plurality of hard disk drives;

a second plurality of elements including a second plurality of hard disk drives;

a third plurality of elements;

a fourth plurality of elements;

a first group of current sharing power supplies powering the first plurality of elements;

a second group of current sharing power supplies powering the second plurality of elements;

a first power circuit operable to provide a first shared power from the first and the second groups of current sharing power supplies, the first shared power being supplied to the third plurality of elements; and

a second power circuit operable to provide a second shared power from the first and the second groups of current sharing power supplies, the second shared power being supplied to the fourth plurality of elements.

Claim 11 (previously presented): The hard disk drive enclosure of claim 10, wherein the first power circuit and the second power circuit are similarly implemented.

Claim 12 (currently amended): The hard disk drive enclosure of claim 10, wherein:

the first power circuit comprises:

a first fuse having an input terminal coupled to the first group of current sharing power supplies;

a second fuse having an input terminal coupled to the second group of current sharing power supplies;

a first diode coupled between an output terminal of the first fuse and an output terminal of the first voltage power circuit; and

a second diode coupled between an output terminal of the second fuse and the output terminal of the first voltage power circuit;

the second power circuit comprises:

a third fuse having an input terminal coupled to the first group of current sharing power supplies;

a fourth fuse having an input terminal coupled to the second group of current sharing power supplies;

a third diode coupled between an output of the third fuse and an output terminal of the second voltage power circuit; and

a fourth diode coupled between an output of the fourth fuse and the output terminal of the second voltage power circuit.

Claim 13 (previously presented): The hard disk drive enclosure of claim 10, wherein the third and the fourth pluralities of elements each includes at least one of a transceiver, a repeater, a memory, and an enclosure controller.

Claim 14 (previously presented): The hard disk drive enclosure of claim 10, wherein the third and the fourth pluralities of elements each includes at least one of a backplane controller, a port bypass circuit, a temperature sensor, and a memory.

Claim 15 (previously presented): The hard disk drive enclosure of claim 5, wherein the third plurality of elements includes at least one of a transceiver, a repeater, a memory, and an enclosure controller.

Claim 16 (previously presented): The hard disk drive enclosure of claim 7, wherein the third plurality of elements includes at least one of a temperature sensor, a memory, and a backplane controller.

Claim 17 (previously presented): The hard disk drive enclosure of claim 16, wherein the backplane controller is coupled to a port bypass circuit, the port bypass circuit operable to bypass one of the first plurality of hard disk drives.

Claim 18 (currently amended): The hard disk drive enclosure of claim 17, further comprising:

a fourth plurality of elements in another shared power domain;
another power circuit coupled to the first group of current sharing power supplies and the second group of current sharing power supplies to provide another shared power to the fourth plurality of elements, the another power circuit comprising:
a third fuse having an input terminal coupled to the first group of current sharing power supplies;
a fourth fuse having an input terminal coupled to the second group of current sharing power supplies;
a third diode coupled between an output of the third fuse and an output terminal of the ~~second~~ another power circuit; and
a fourth diode coupled between an output of the fourth fuse and the output terminal of the ~~second~~ another power circuit.

Claim 19 (previously presented): The hard disk drive enclosure of claim 18, wherein the fourth plurality of elements includes at least one of another temperature sensor, another memory, and another backplane controller.

Claim 20 (previously presented): The hard disk drive enclosure of claim 19, wherein the another backplane controller is coupled to another port bypass circuit, the another port bypass circuit operable to bypass one of the second plurality of hard disk drives.

Claim 21 (previously presented): The hard disk drive enclosure of claim 18, wherein the fourth plurality of elements includes at least one of another transceiver, another repeater, another memory, and another enclosure controller.